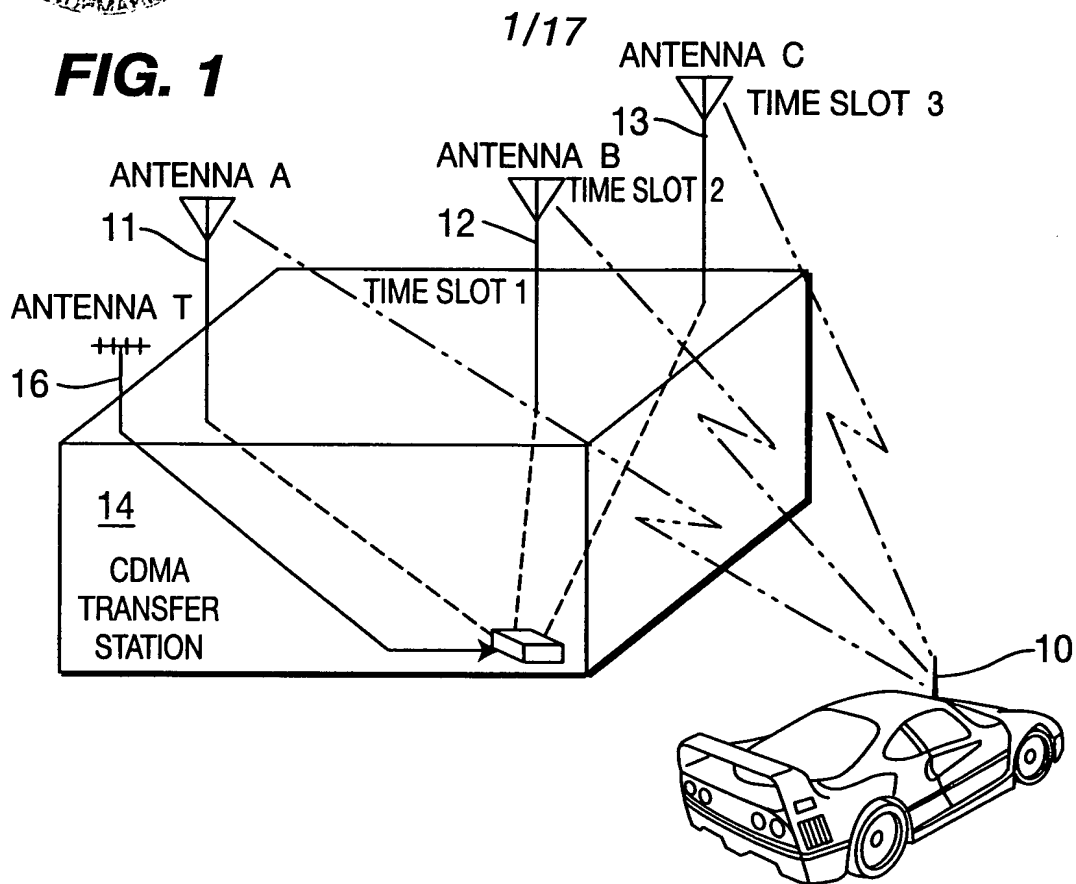
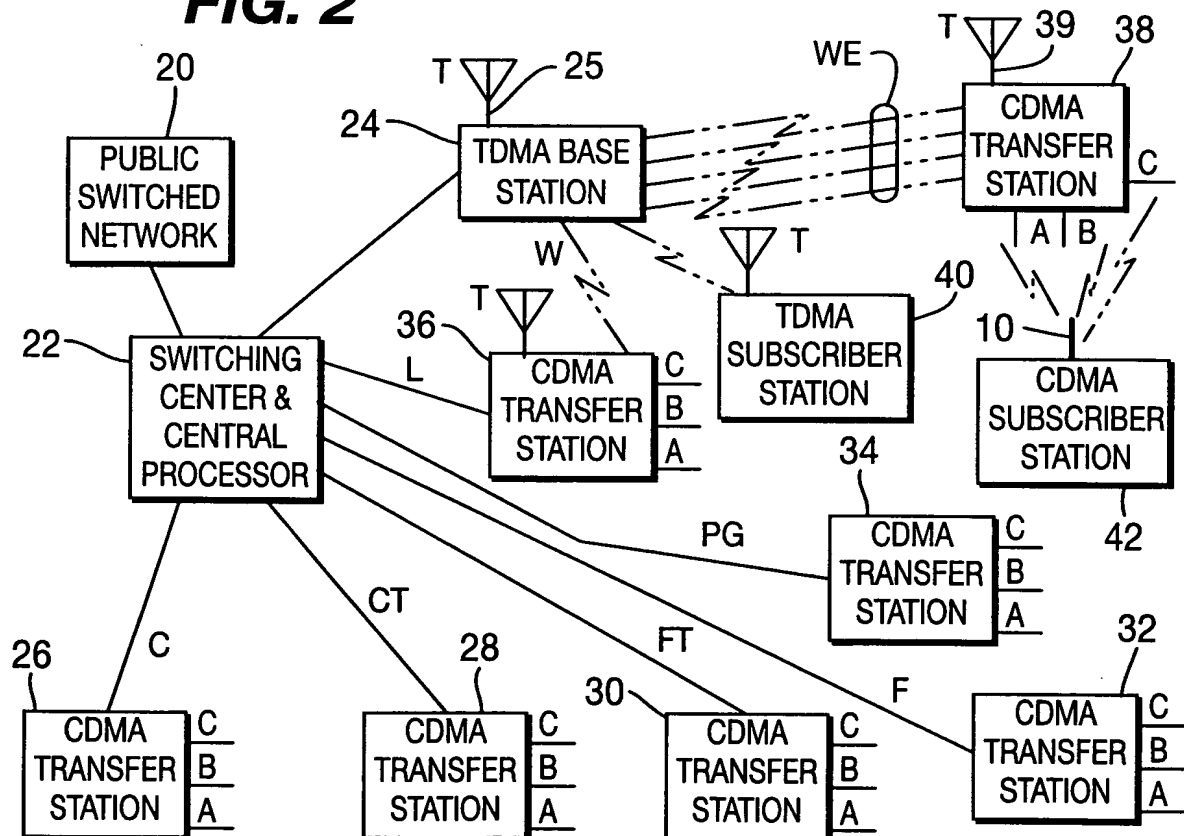
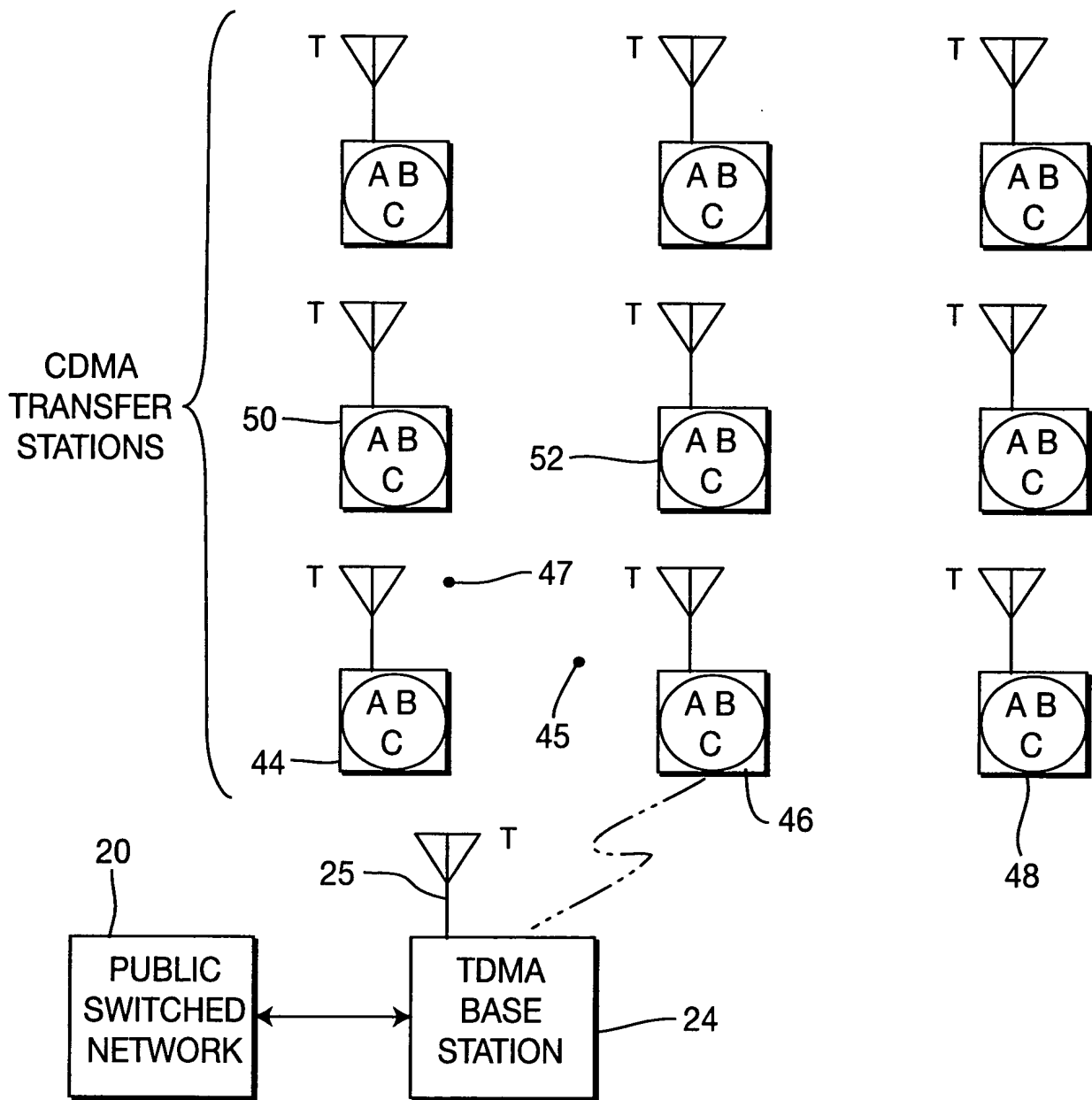
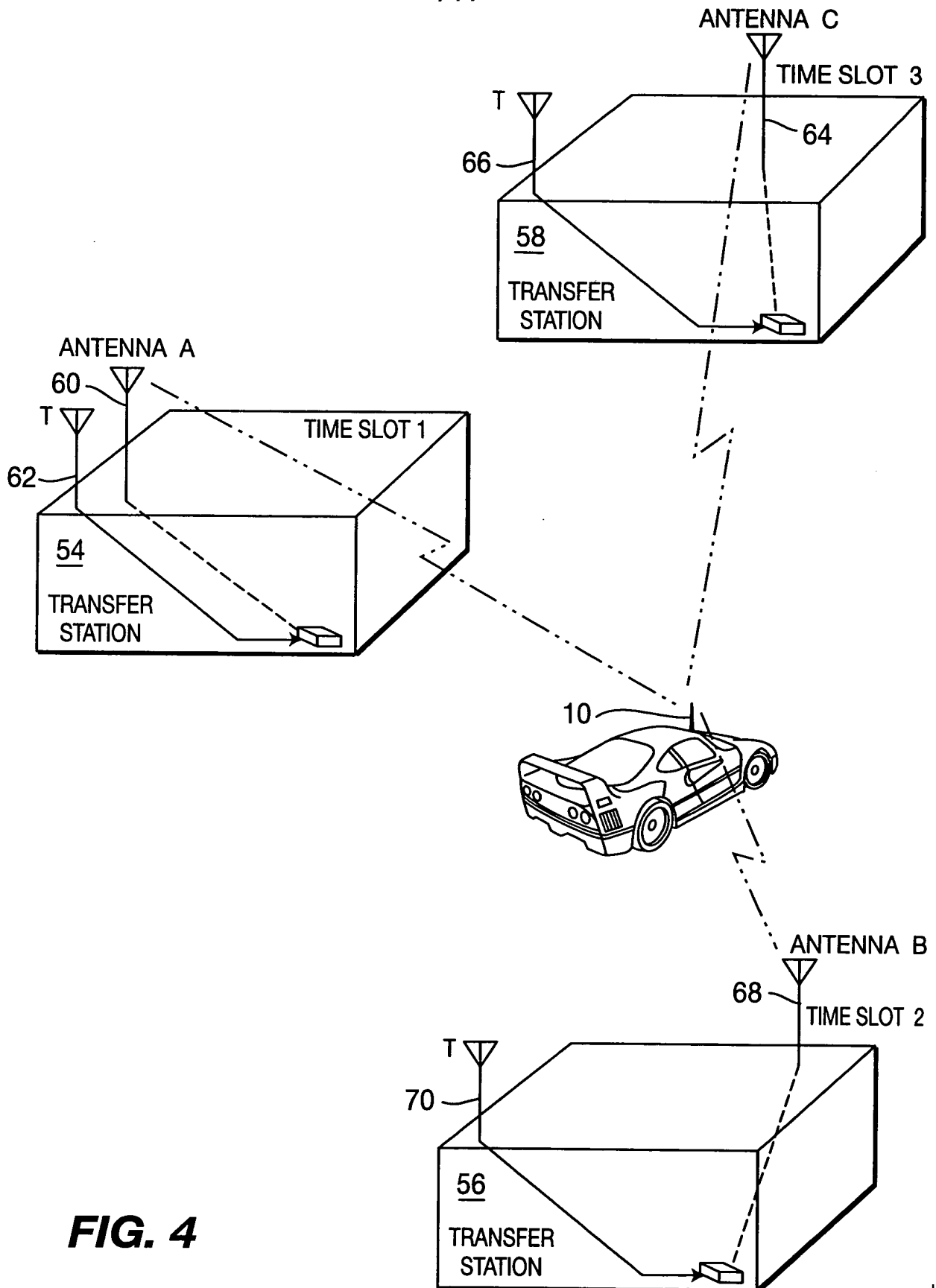


**FIG. 1****FIG. 2**

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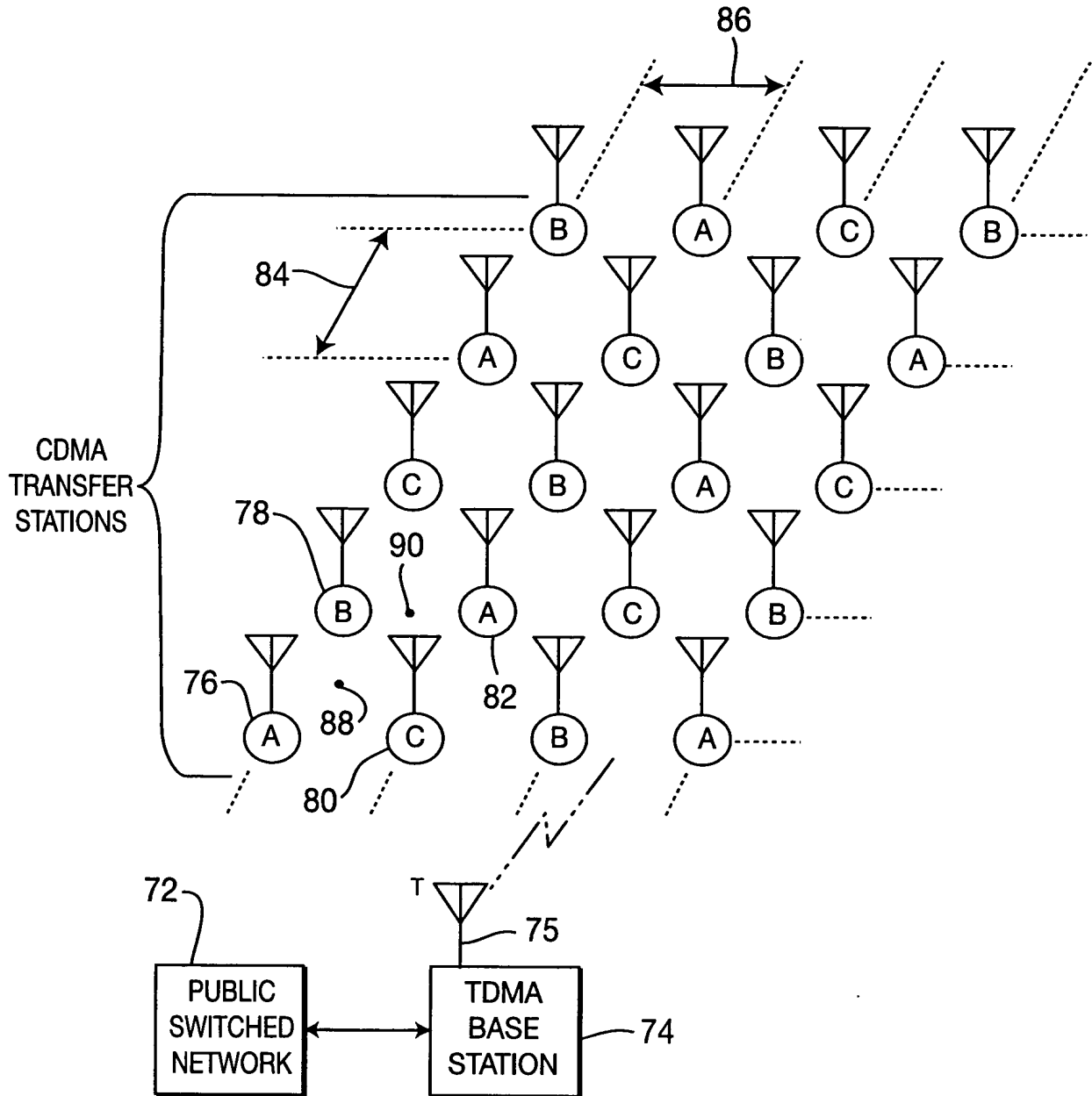
**FIG. 3**

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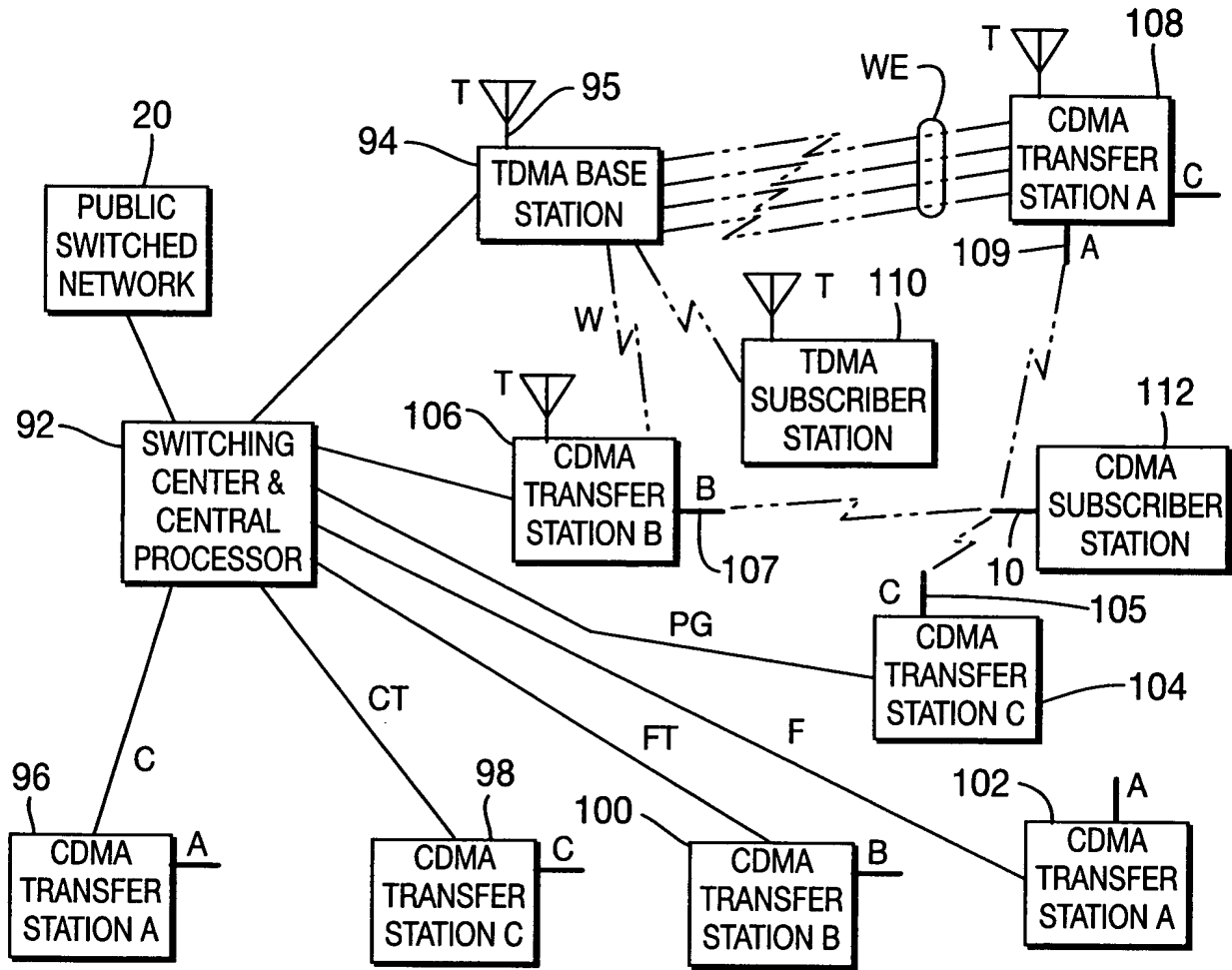
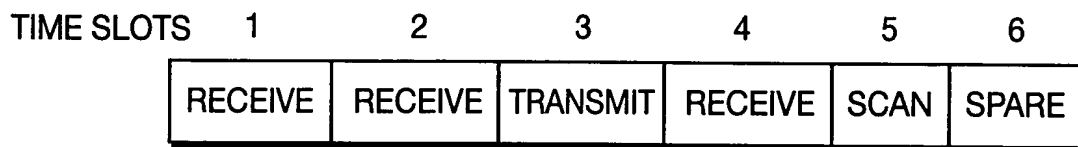


**FIG. 4**

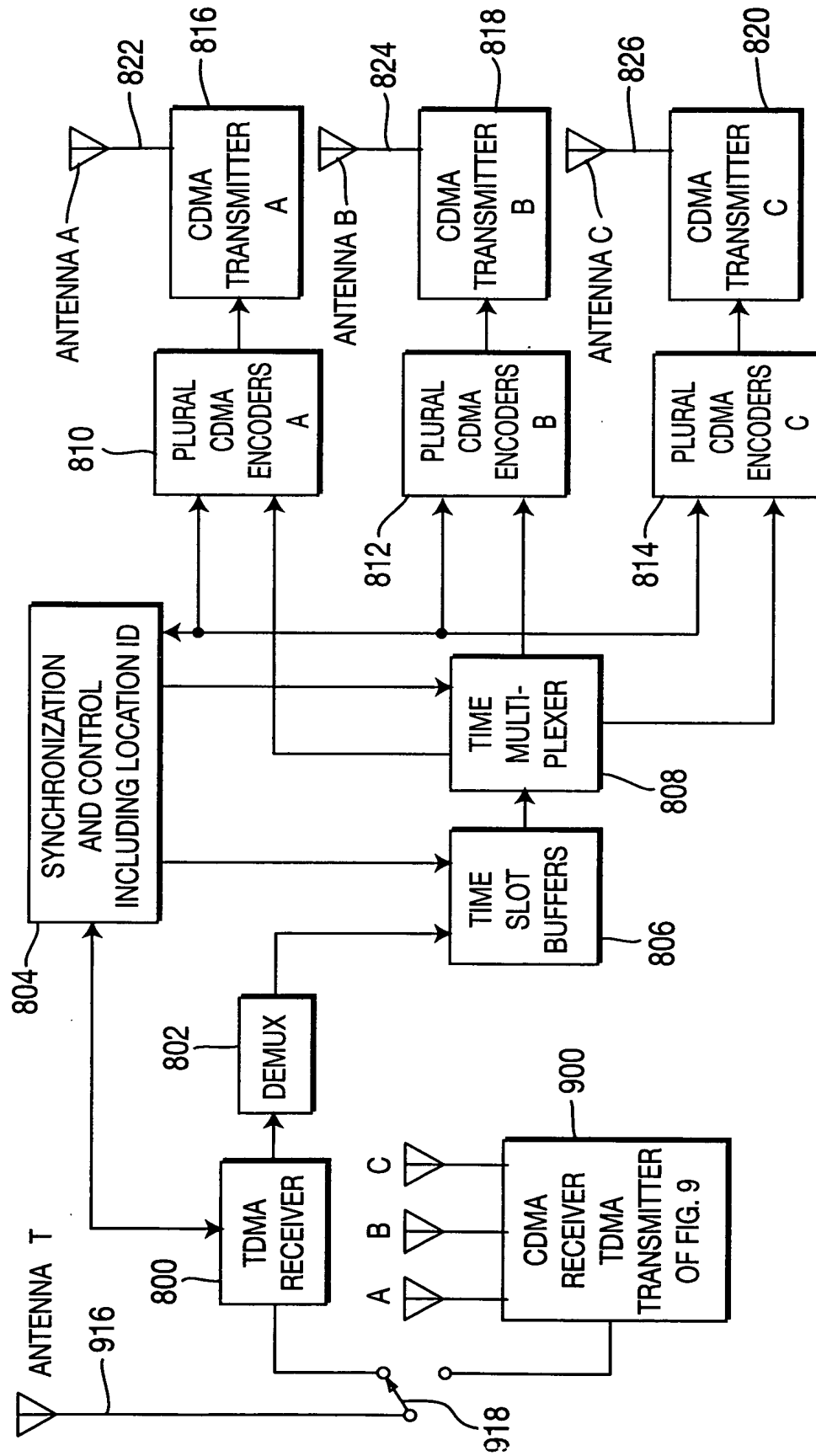
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**FIG. 5**

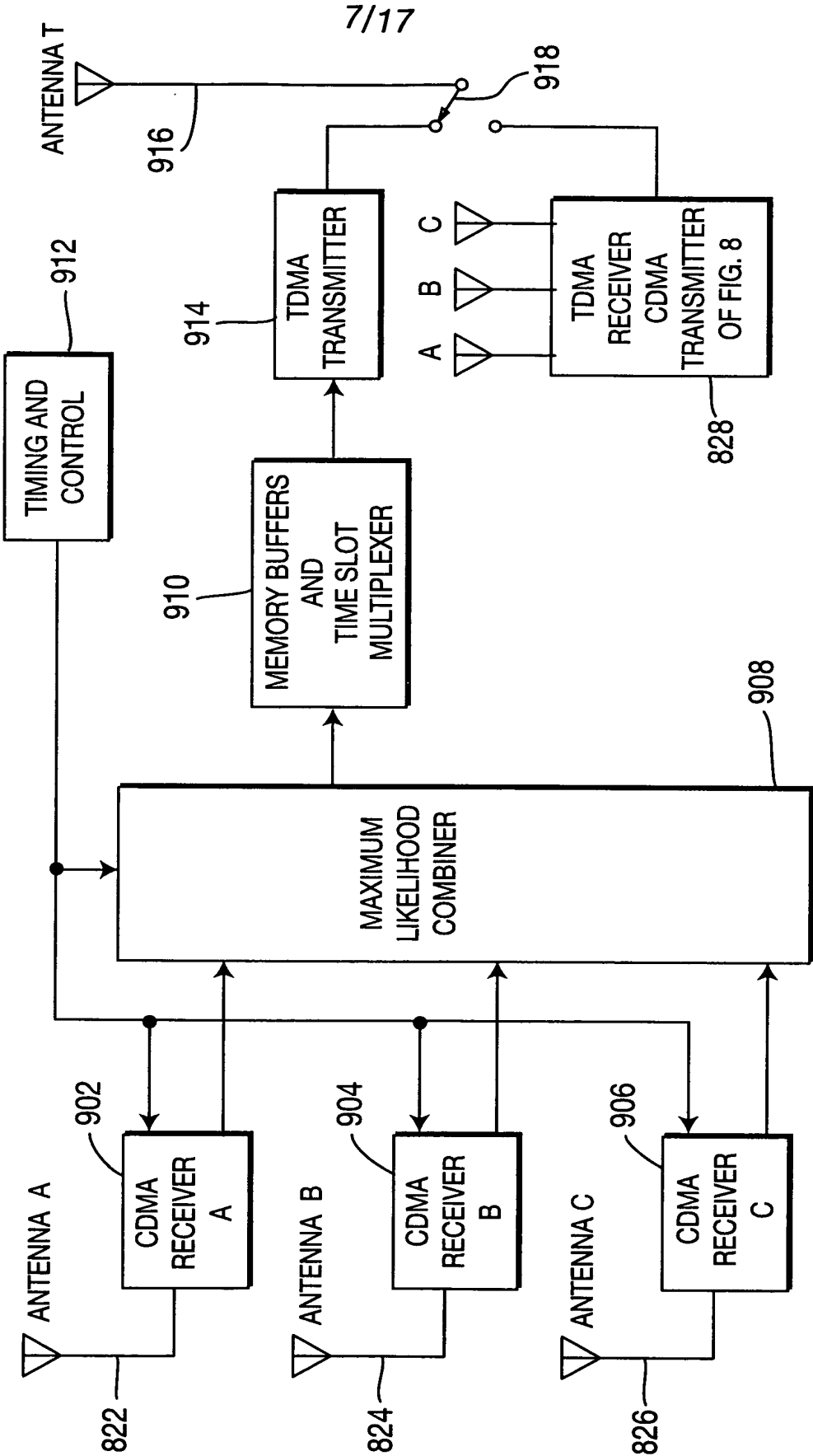
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**FIG. 6****FIG. 7**

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TRANSFER STATION FORWARD CHANNEL**FIG. 8**

TRANSFER STATION REVERSE CHANNEL



**FIG. 9**

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**FIG. 10A**

TRANSFER STATION CDMA OUTPUT TO ANTENNAS (FORWARD CHANNEL)								
TIME SLOTS	1	2	3	4	5	6	1	2 1002
ANTENNA A	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>	T <sub>6</sub>	T <sub>1</sub>	T <sub>2</sub>
ANTENNA B	T <sub>6</sub>	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>	T <sub>6</sub>	T <sub>1</sub>
ANTENNA C	T <sub>4</sub>	T <sub>5</sub>	T <sub>6</sub>	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>

TRANSFER STATION CDMA INPUT FROM ANTENNAS (REVERSE CHANNEL)								
TIME SLOTS	1	2	3	4	5	6	1	2 1004
ANTENNA A	R <sub>5</sub>	R <sub>6</sub>	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>
ANTENNA B	R <sub>5</sub>	R <sub>6</sub>	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>
ANTENNA C	R <sub>5</sub>	R <sub>6</sub>	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>

T<sub>X</sub> = TRANSMITTER CHANNEL X      R<sub>X</sub> = RECEIVER CHANNEL X

**FIG. 10B**

TRANSFER STATION CDMA OUTPUT TO ANTENNAS (FORWARD CHANNEL)								
TIME SLOTS	1	2	3	4	5	6	1	2 1006
ANTENNA A	T <sub>1,7</sub>	T <sub>2,8</sub>	T <sub>3,9</sub>	T <sub>4,10</sub>	T <sub>5,11</sub>	T <sub>6,12</sub>	T <sub>1,7</sub>	T <sub>2,8</sub>
ANTENNA B	T <sub>6,12</sub>	T <sub>1,7</sub>	T <sub>2,8</sub>	T <sub>3,9</sub>	T <sub>4,10</sub>	T <sub>5,11</sub>	T <sub>6,12</sub>	T <sub>1,7</sub>
ANTENNA C	T <sub>4,10</sub>	T <sub>5,11</sub>	T <sub>6,12</sub>	T <sub>1,7</sub>	T <sub>2,8</sub>	T <sub>3,9</sub>	T <sub>4,10</sub>	T <sub>5,11</sub>

TRANSFER STATION CDMA INPUT FROM ANTENNAS (REVERSE CHANNEL)								
TIME SLOTS	1	2	3	4	5	6	1	2 1008
ANTENNA A	R <sub>5,11</sub>	R <sub>6,12</sub>	R <sub>1,7</sub>	R <sub>2,8</sub>	R <sub>3,9</sub>	R <sub>4,10</sub>	R <sub>5,11</sub>	R <sub>6,12</sub>
ANTENNA B	R <sub>5,11</sub>	R <sub>6,12</sub>	R <sub>1,7</sub>	R <sub>2,8</sub>	R <sub>3,9</sub>	R <sub>4,10</sub>	R <sub>5,11</sub>	R <sub>6,12</sub>
ANTENNA C	R <sub>5,11</sub>	R <sub>6,12</sub>	R <sub>1,7</sub>	R <sub>2,8</sub>	R <sub>3,9</sub>	R <sub>4,10</sub>	R <sub>5,11</sub>	R <sub>6,12</sub>

T<sub>x</sub> = TRANSMITTER CHANNEL X      R<sub>x</sub> = RECEIVER CHANNEL X  
T<sub>x,y</sub> = TRANSMITTER CHANNELS X AND Y      R<sub>x,y</sub> = RECEIVER CHANNELS X AND Y



**FIG. 11A**

Figure 1 illustrates the scheduling of time slots for three antennas (A, B, and C) across 8 time slots. The time slots are grouped into two sets of 4, labeled 1 through 8. The scheduling is as follows:

TIME SLOTS	1	2	3	4	5	6	1	2
ANTENNA A	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>	T <sub>6</sub>	T <sub>1</sub>	T <sub>2</sub>
	T <sub>7</sub>	T <sub>8</sub>	T <sub>9</sub>	T <sub>10</sub>	T <sub>11</sub>	T <sub>12</sub>	T <sub>7</sub>	T <sub>8</sub>
	T <sub>13</sub>	T <sub>14</sub>	T <sub>15</sub>	T <sub>16</sub>	T <sub>17</sub>	T <sub>18</sub>	T <sub>13</sub>	T <sub>14</sub>
	T <sub>19</sub>	T <sub>20</sub>	T <sub>21</sub>	T <sub>22</sub>	T <sub>23</sub>	T <sub>24</sub>	T <sub>19</sub>	T <sub>20</sub>

TIME SLOTS	1	2	3	4	5	6	1	2
ANTENNA B	T <sub>6</sub>	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>	T <sub>6</sub>	T <sub>1</sub>
	T <sub>12</sub>	T <sub>7</sub>	T <sub>8</sub>	T <sub>9</sub>	T <sub>10</sub>	T <sub>11</sub>	T <sub>12</sub>	T <sub>7</sub>
	T <sub>18</sub>	T <sub>13</sub>	T <sub>14</sub>	T <sub>15</sub>	T <sub>16</sub>	T <sub>17</sub>	T <sub>18</sub>	T <sub>13</sub>
	T <sub>24</sub>	T <sub>19</sub>	T <sub>20</sub>	T <sub>21</sub>	T <sub>22</sub>	T <sub>23</sub>	T <sub>24</sub>	T <sub>19</sub>

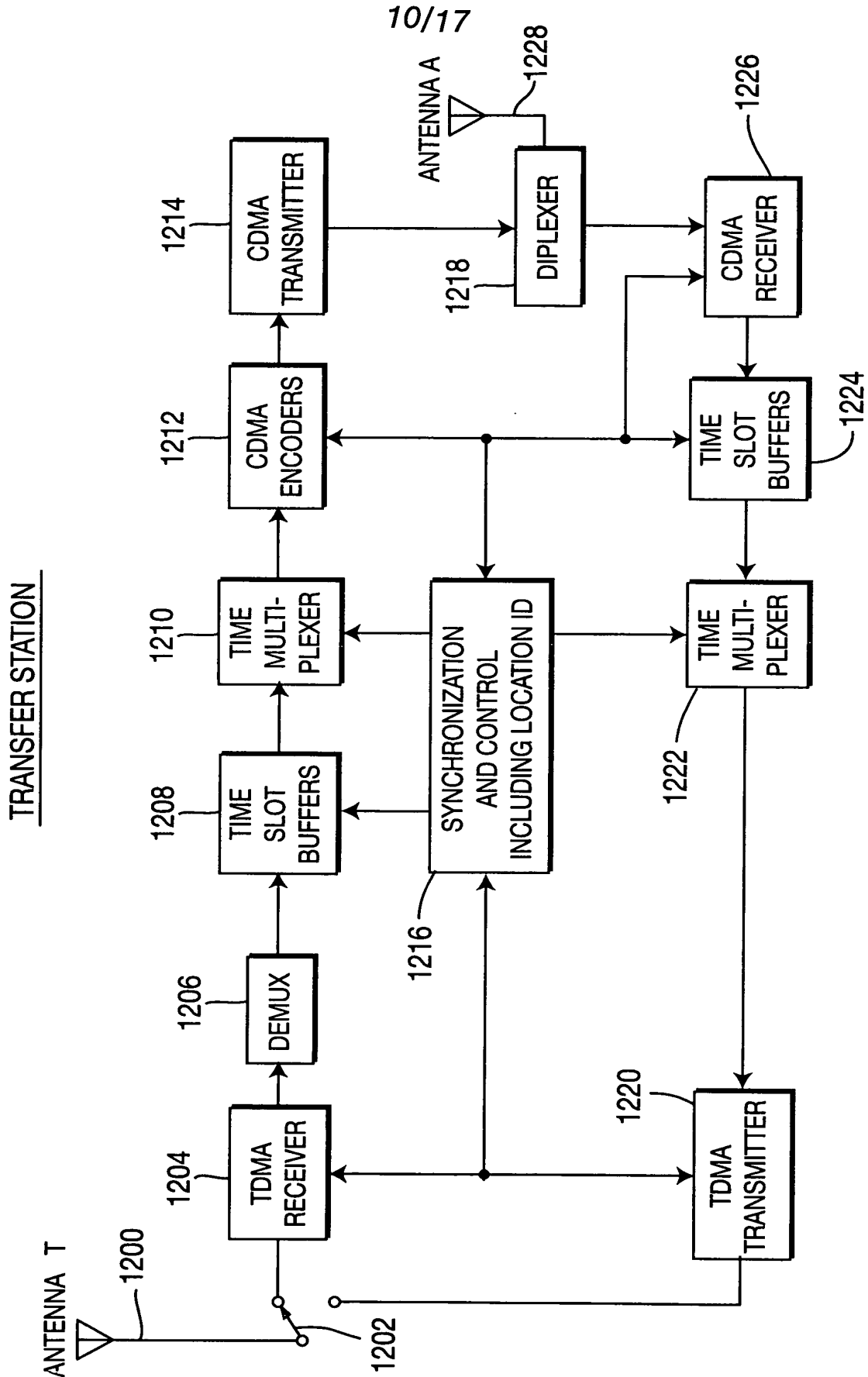
  

TIME SLOTS	1	2	3	4	5	6	1	2
ANTENNA C	T <sub>4</sub>	T <sub>5</sub>	T <sub>6</sub>	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>
	T <sub>10</sub>	T <sub>11</sub>	T <sub>12</sub>	T <sub>7</sub>	T <sub>8</sub>	T <sub>9</sub>	T <sub>10</sub>	T <sub>11</sub>
	T <sub>16</sub>	T <sub>17</sub>	T <sub>18</sub>	T <sub>13</sub>	T <sub>14</sub>	T <sub>15</sub>	T <sub>16</sub>	T <sub>17</sub>
	T <sub>22</sub>	T <sub>23</sub>	T <sub>24</sub>	T <sub>19</sub>	T <sub>20</sub>	T <sub>21</sub>	T <sub>22</sub>	T <sub>23</sub>

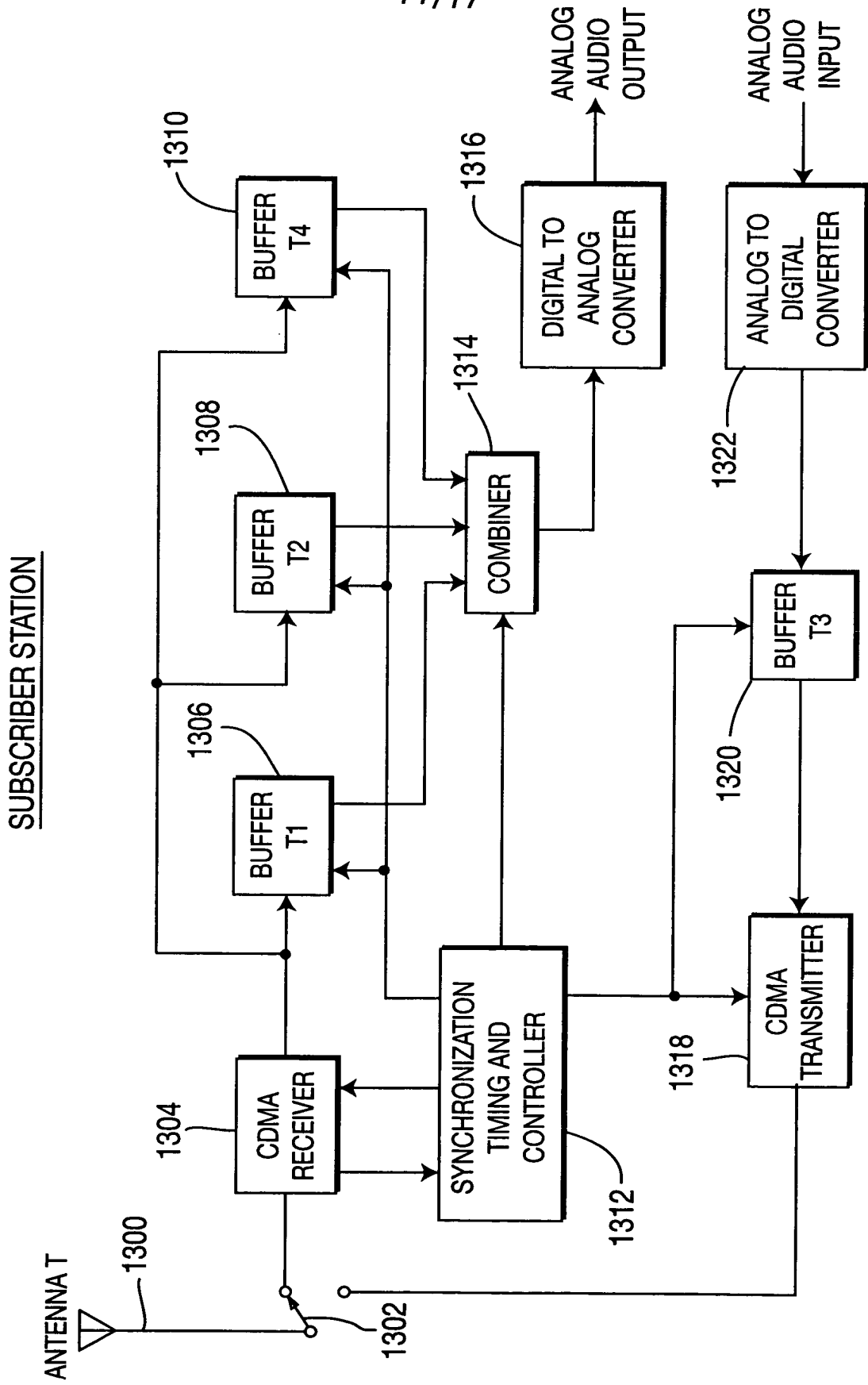
**FIG. 11B**

	1	2	3	4	5	6	1	2	
ANTENNA A	R <sub>5</sub>	R <sub>6</sub>	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>	1108
ANTENNA B AND ANTENNA C HAVE IDENTICAL TIME SLOTING	R <sub>11</sub>	R <sub>12</sub>	R <sub>7</sub>	R <sub>8</sub>	R <sub>9</sub>	R <sub>10</sub>	R <sub>11</sub>	R <sub>12</sub>	
	R <sub>17</sub>	R <sub>18</sub>	R <sub>13</sub>	R <sub>14</sub>	R <sub>15</sub>	R <sub>16</sub>	R <sub>17</sub>	R <sub>18</sub>	
	R <sub>23</sub>	R <sub>24</sub>	R <sub>19</sub>	R <sub>20</sub>	R <sub>21</sub>	R <sub>22</sub>	R <sub>23</sub>	R <sub>24</sub>	

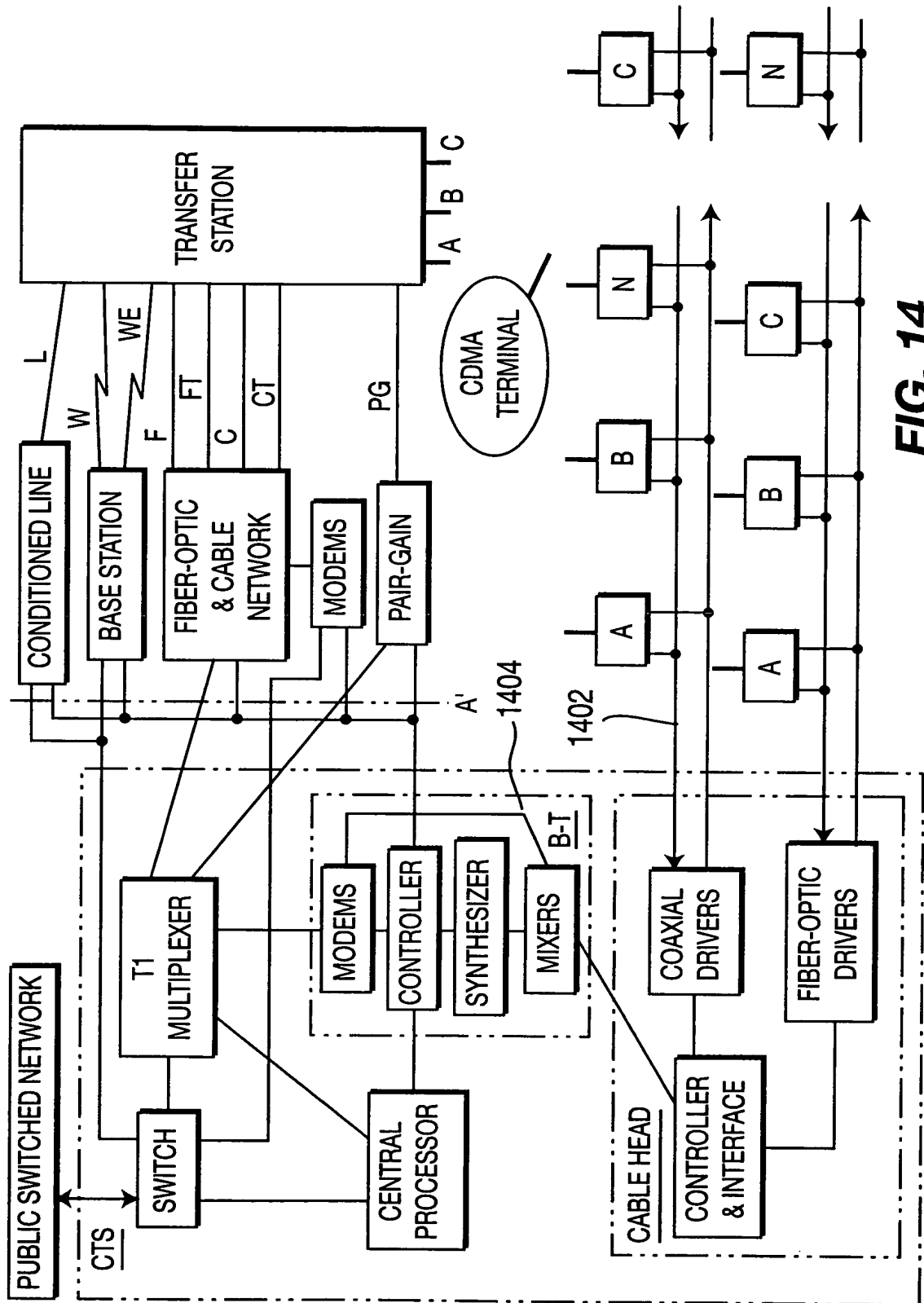




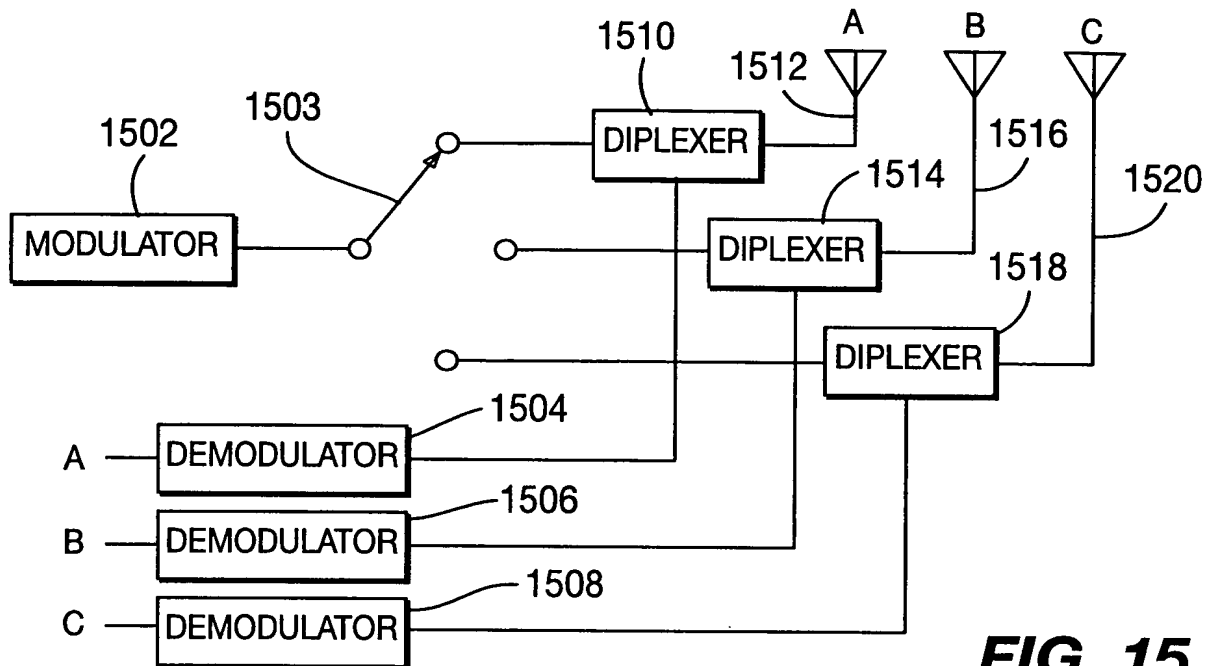
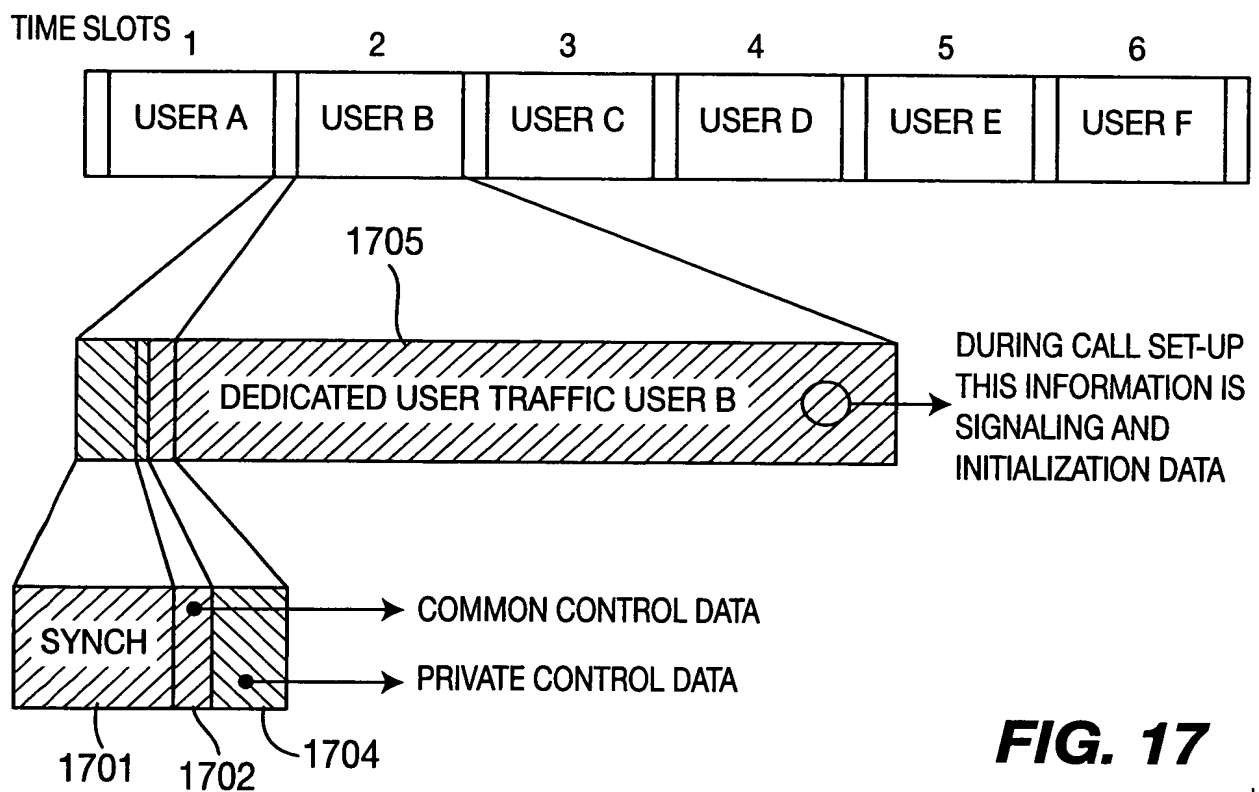
**FIG. 12**



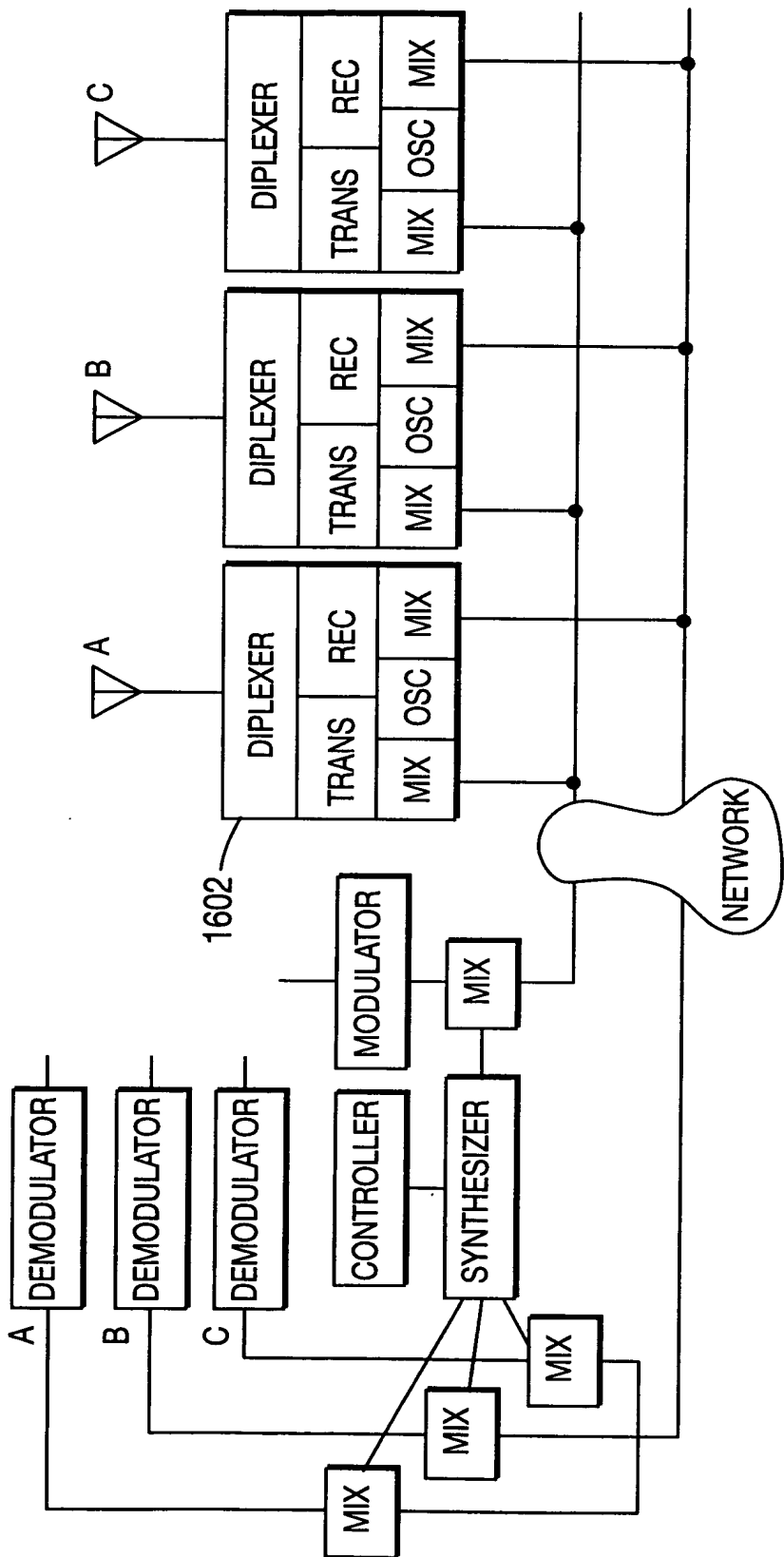
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CENTRALIZED AND INTEGRATED TRANSFER STATION**FIG. 14**

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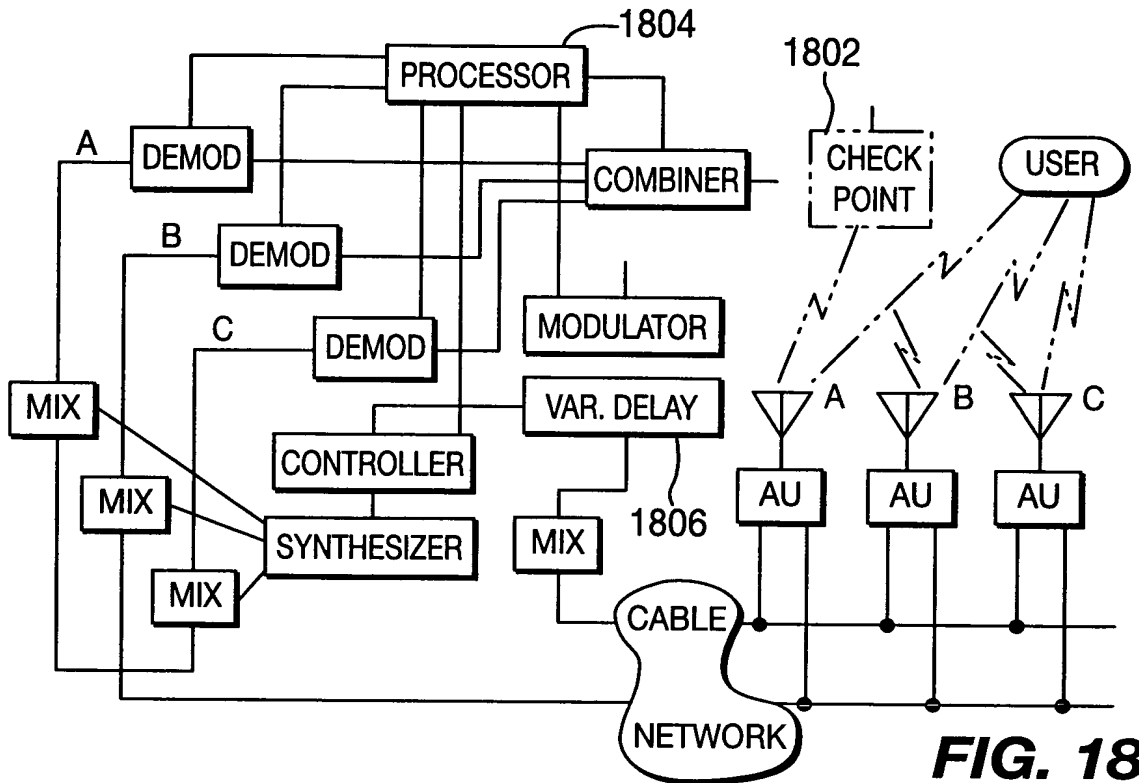
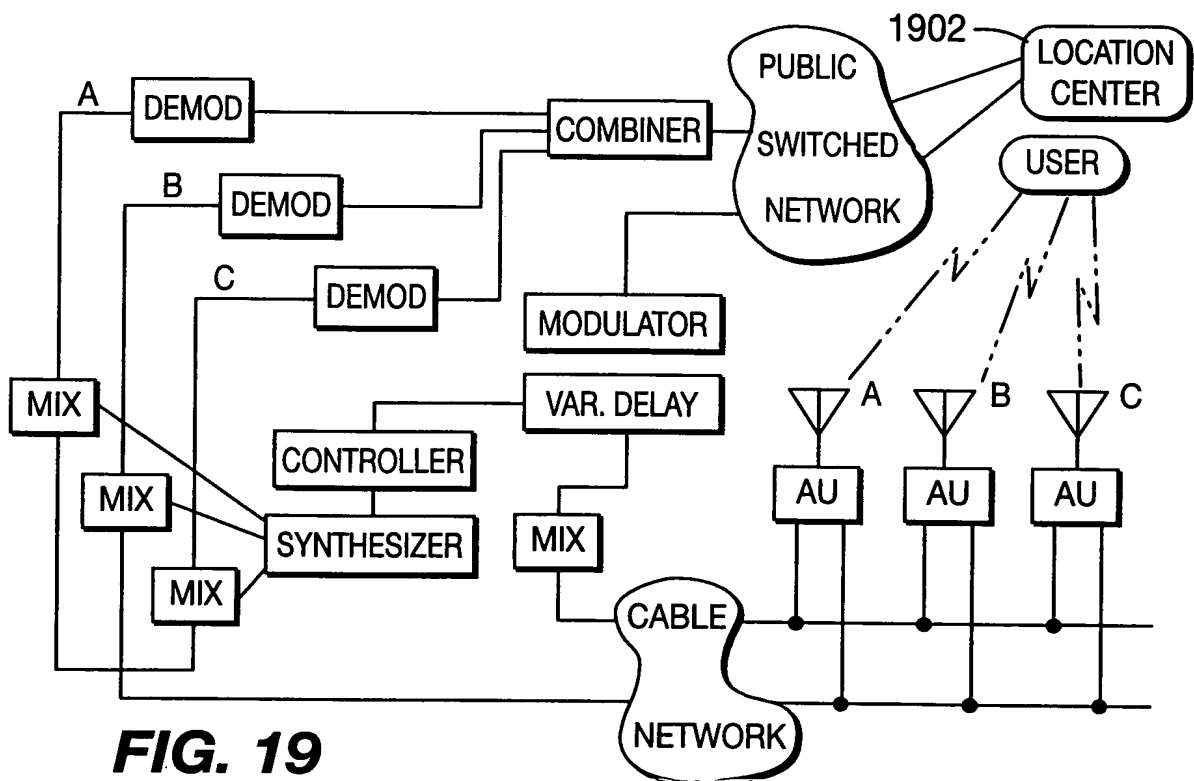
TRANSFER STATION ANTENNA IMPLEMENTATION**FIG. 15**SYNCH AND CONTROL CHANNEL STRUCTURE**FIG. 17**

DISTRIBUTED ANTENNA IMPLEMENTATION USING CABLE OR FIBER-OPTIC CABLE

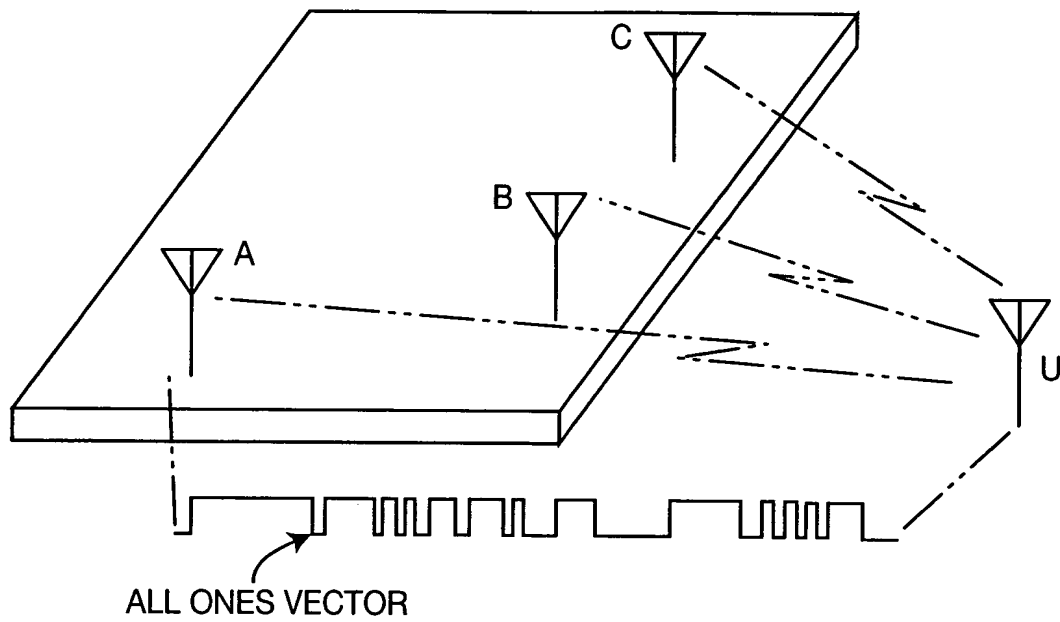
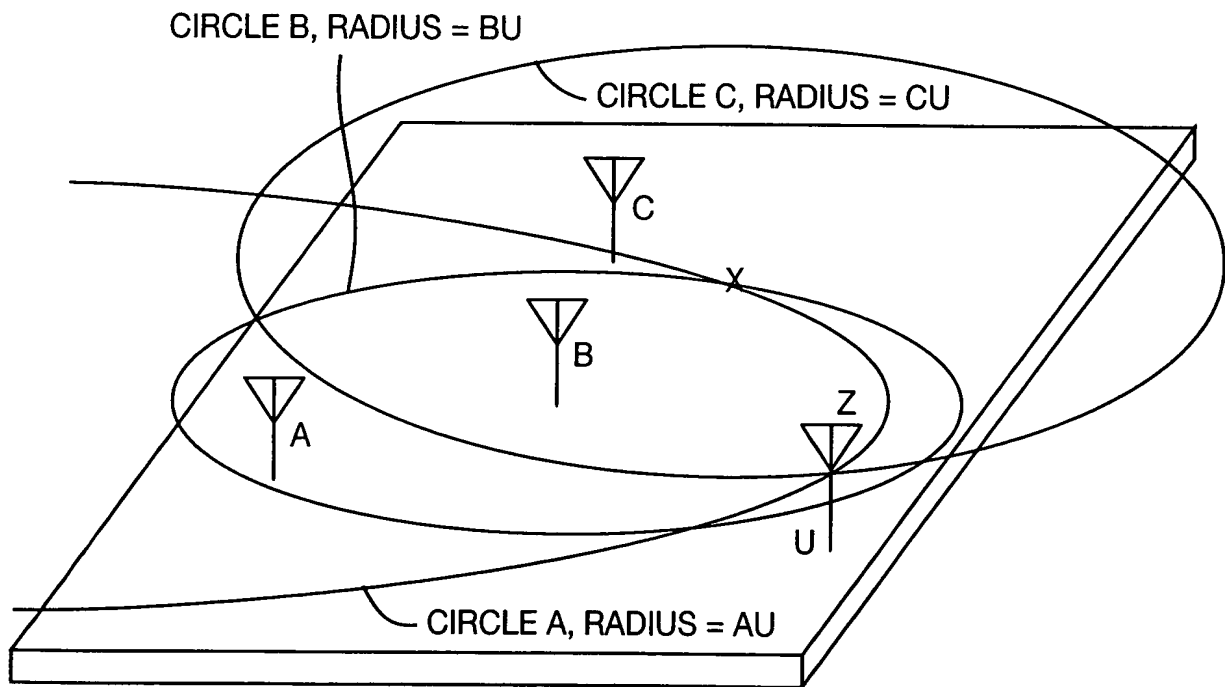


**FIG. 16**

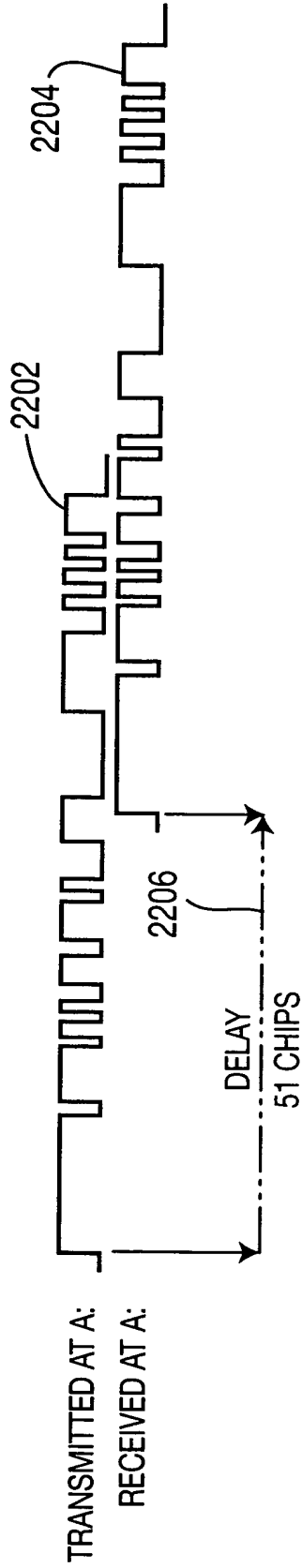
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TIME CALIBRATION FOR DISTRIBUTED ANTENNA IMPLEMENTATIONLOCATION CENTER EXTERNAL TO COMMUNICATION SYSTEM

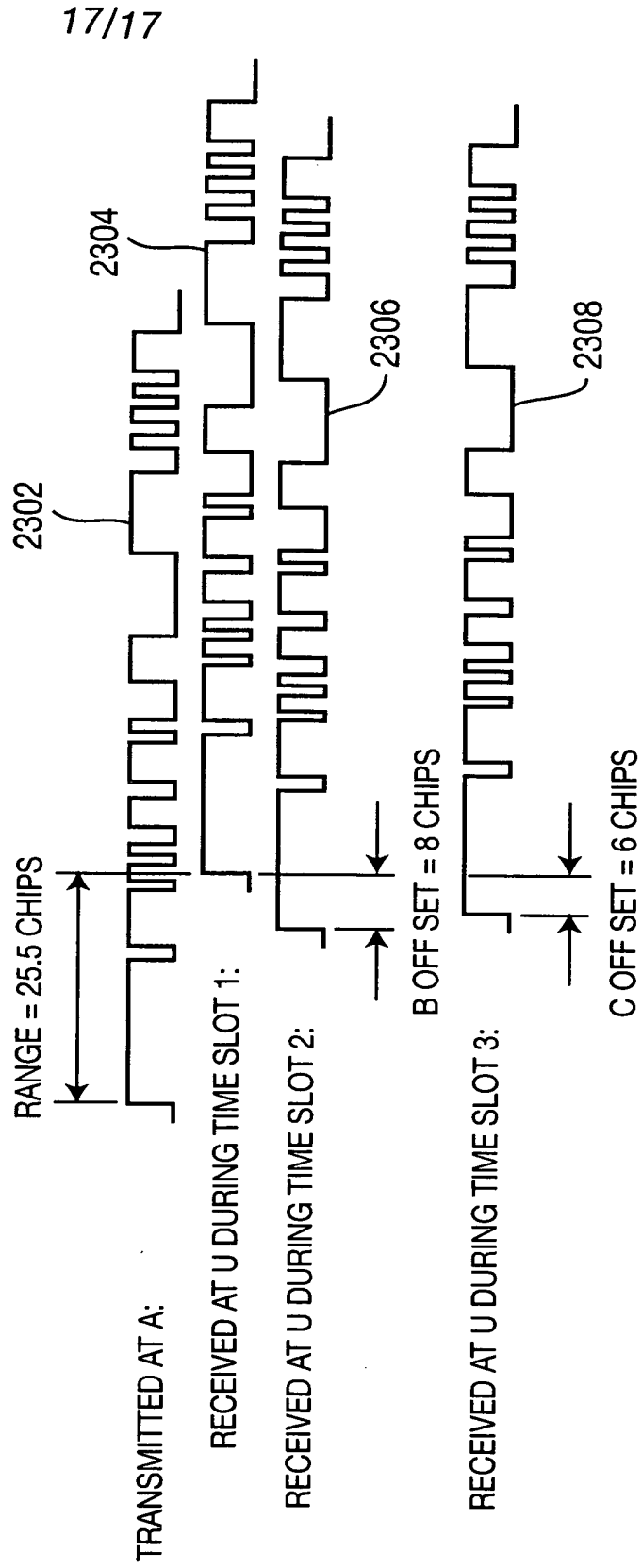
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**FIG. 20****FIG. 21**





**FIG. 22**



**FIG. 23**

